PNNL
Environmental Management
Performance Report

Monthly Report - February 2000

April 2000

PREPARED FOR THE U.S. DEPARTMENT OF ENERGY, RICHLAND OPERATIONS OFFICE
OFFICE OF ENVIRONMENTAL MANAGEMENT

Pacific Northwest National Laboratory
Operated for the U.S. Department of Energy
by Battelle Memorial Institute

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This document provides the Department of Energy Richland Operations Office (DOE-RL) with a report of the Pacific Northwest National Laboratory (PNNL) performance by Battelle Memorial Institute and its subcontractors.

In Section A, the Executive Summary, text and graphics report the safety metrics status for all PNNL activities. Senior management's overall performance assessment of all Environmental Management activities conducted at PNNL is presented in a stoplight chart.

Section B, Project Performance Summary, provides a brief summary of the month's performance for the PNNL lead activity, PNNL Waste Management (PBS RL-ST01). Summary analyses pertaining to PNNL's support to other Project Baseline Summaries (PBSs) are addressed in the contractor's report having lead responsibility for that scope.

Unless otherwise noted, information in this report is current as of February 27, 2000.

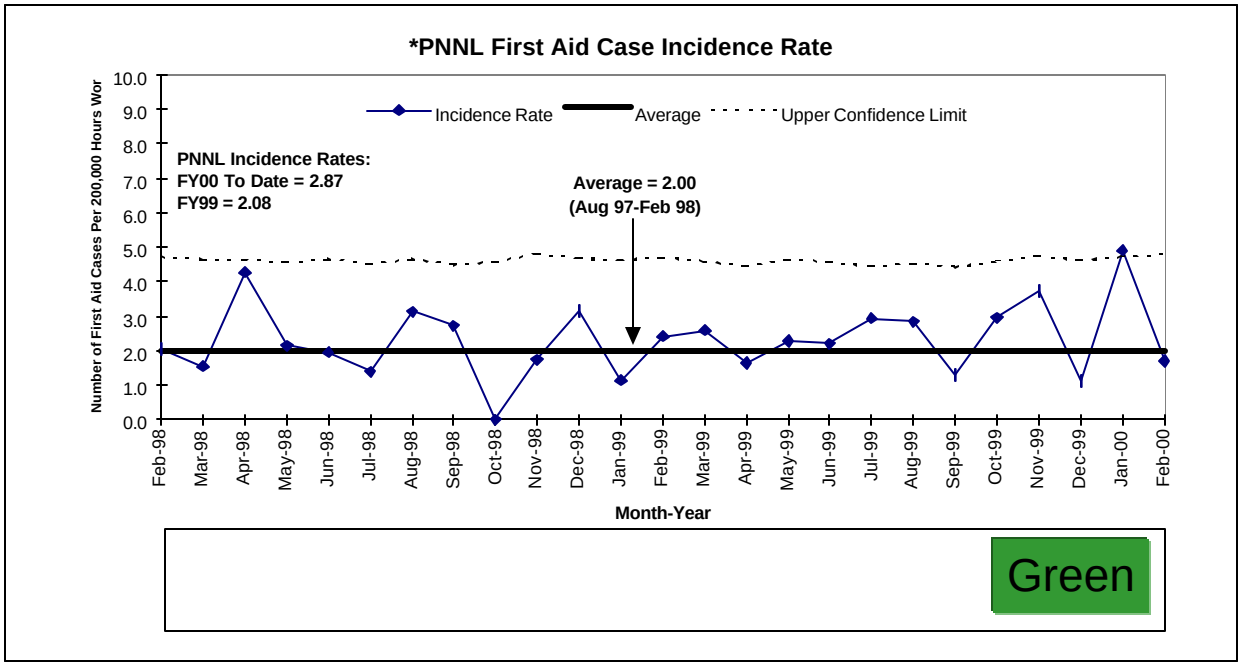
This section provides an executive-level summary of performance information and is intended to bring to Management's attention that information considered to be most noteworthy. The section begins with overviews of safety, followed by a stoplight chart on overall performance.

Safety Overview

The focus of this section is on documenting trends in work-related injuries and illnesses. Improvements in these rates result from the efforts of the PNNL workforce as they implement the Integrated Environment, Safety, and Health (ES&H) Management System (ISMS), work towards achieving Voluntary Protection Program (VPP) "star" status, and accomplish work through Enhanced Work Planning (EWP). Safety and health statistical data are presented in this section.

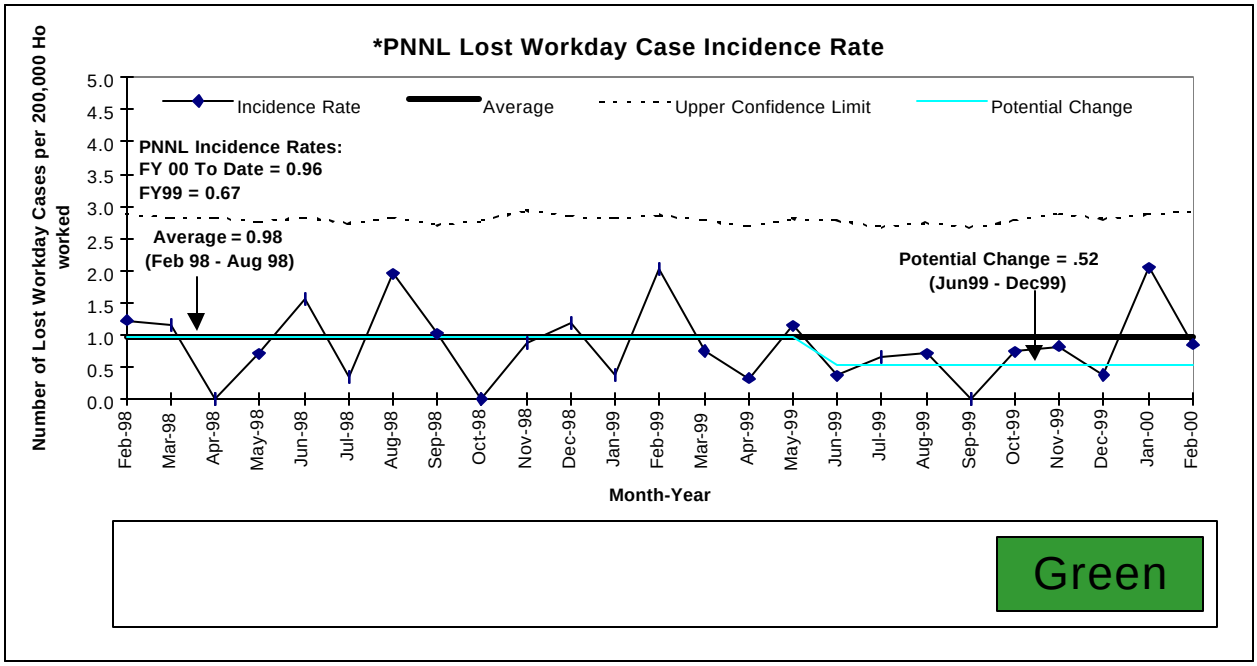
SIGNIFICANT SAFETY AND HEALTH EVENTS

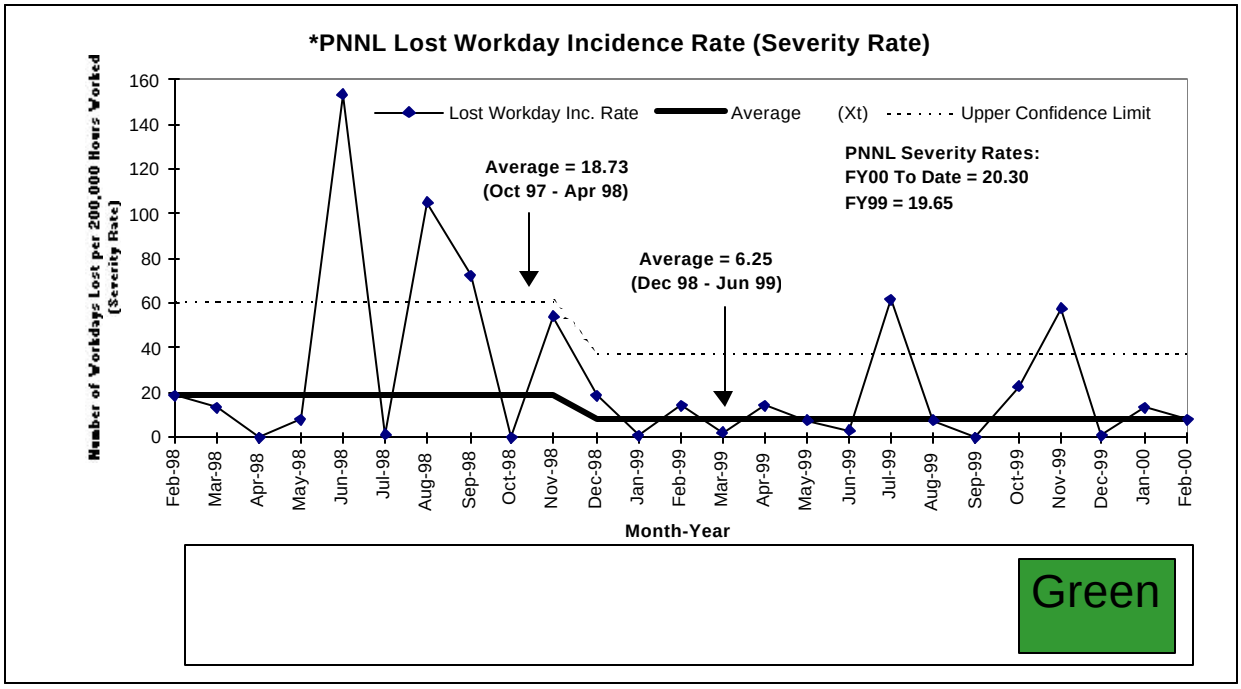
Currently the PNNL Total Recordable Case Incidence Rates appear to be cycling periodically around the 2.22 baseline average and show no significant deviations from the average. The Lost Workday Case Incidence Rates demonstrate that, for eight of the past nine months, the rates have been below the 0.98 average. No notable changes have occurred in the Lost Workday Severity Rates since the last report.



Total Tri-Party Agreement Milestones Due in FY00	**16**
Total Planned Through February	11
Total Completed Through February	11

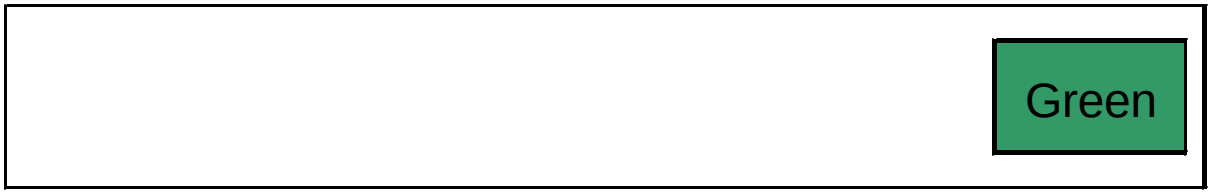
Remaining Milestones to be Completed in FY00	**5**
Forecast Ahead of Schedule	1
Forecast On Schedule	4
Unrecoverable	0





Cost/Schedule Performance Stoplight

The following rating reflects overall performance for activities conducted by PNNL. *(Narrative not required when rating is green.)*



Green: Satisfactory
Yellow: Significant improvement required
Red: Unsatisfactory

This section provides cost and schedule performance, any significant issues, and upcoming baseline change requests for the period covered. In fiscal year (FY) 2000, Battelle Memorial Institute has lead responsibility over PBS RL-ST01, PNNL Waste Management WBS 1.7.1.

Mission

WBS 1.7.1 provides PNNL with waste management services and compliant operations in support of science and technology development for the multiprogram needs of the U.S. Department of Energy (DOE) Complex. These services include:

- essential surveillance and maintenance of DOE laboratory facilities assigned to PNNL for safe containment of radioactive and hazardous materials
- infrastructure required to manage wastes and effluents currently generated at the PNNL
- operational compliance services to meet regulatory requirements and operating permits including environment, safety, and health regulations
- management of legacy wastes and contamination remaining from past PNNL research operations.

Performance Data and Analysis

As of February 27, the cumulative cost of $4.9 million and a positive cost variance of $0.4M results from reduced overhead rates and delayed billings. A change request is in process to revise the basis of estimate and align budget and funds. It is expected that the baseline activities will be completed within the funding allocation. The primary reasons for the cumulative schedule variance of negative $0.4M are described below:

- Difficulties in completing the high-dose waste container design delayed the initiation of the fabrication of the drum-handling system. The design of the shielded drums is being subjected to significant review as part of the safety analysis report for packaging (SARP). The primary container design failed the structural analysis simulating a drop test. Staff members determined that the inner shipping container would not meet the 4-foot drop scenario imposed by the SARP. Redesign of the inner container corrected the deficiency. The SARP is about 40% complete. Preliminary cost estimates for fabricating the drums have been obtained. Meetings have been held with other contractors regarding the shipping and receiving of the drums later this year. The actual disposal of the high-dose waste should occur as scheduled at the end of the fiscal year.
- The completion of modifications to the Radioactive Liquid Waste System (RLWS) has been delayed. The RLWS delay affected planned cask shipments to the 200 Area for final disposition. The estimated usage date of the radioactive liquid waste (RLW) tank is late March 2000. At this time, as much waste as possible is being held for the RLW tank when it comes on line. A change request is being developed to delete waste disposal scope affected by RLWS delays.

A change request to modify the RLWS baseline to reflect impacts of additional post-start activities was approved by DOE-RL Projects on February 7. The change request included the revised work control processes that were required by Fluor Federal Services' construction management and PNNL's safety and building management staff. A revised Project Authorization Modification for the increased funding requirement issued to DOE-RL on February 7 was approved on February 23. The final RLWS tie-in was completed on February 24. The cover blocks were installed on February 27 and 28. All post-start activities have been completed with the exception of the final inspection of the existing tie-ins by Science Applications International Corporation (SAIC). The SAIC inspection will be completed after the first usage of the RLWS lines. A letter to DOE-RL is being drafted to document completion of the post-start activities and PNNL's intentions to add waste and operate the modified Radioactive Liquid Waste System in the RPL.